



## 21

## ABSTRACT OF THE DISCLOSURE

A method of treating animal manure solids comprises contacting the solids with a treatment composition comprising AlCl<sub>3</sub>·nH<sub>2</sub>O or Al(NO<sub>3</sub>)<sub>3</sub>·mH<sub>2</sub>O, or the residue of

5 AlCl<sub>3</sub>·nH<sub>2</sub>O or Al(NO<sub>3</sub>)<sub>3</sub>·mH<sub>2</sub>O, to form a treated waste product, wherein n is from 0 to
10, and m is from 0 to 12. The treatment amount can be effective to reduce phosphorus solubility in the manure; reduce phosphorus runoff and/or phosphorus leaching from fields fertilized with manure; inhibit ammonia volatilization from the manure; flocculate solids in the manure; reduce pathogens in the manure; increase the nitrogen content in
10 the manure; and/or reduce acid rain and PM-10s associated with the manure.